Polaroid

FHD Driving Recorder

E272S/S272W

User Manual

Questions?
Need some help?
This manual will help you enjoy your new product

If you still have questions, call our hello line:
400-8401-030

or visit us at:
www.polaroidcarcam.com

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About this Guide

The content in this document is for information purpose and is subject to change without prior notice. We made every effort to ensure that this User Guide is accurate and complete.
However, no liability is assumed for any errors and omissions that may have occurred.
The manufacturer reserves the right to change the technical specifications without prior notice.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Contains FCC ID: 2ACFIWM7911B

Prohibition of co-location

This device and its antenna(s) must not be co-located or operated in conjunction with any other antenna or transmitter.

Important note

Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. To maintain compliance with FCC exposure compliance requirements, please follow the operating instructions as documented in this manual.

WEEE Notice

Disposal of Waste Electrical and Electronic Equipment and/or Battery by users in private households in the European Union

This symbol on the product or on the packaging indicates that this can not be disposed of as a household waste. You must dispose of your waste equipment and/or battery by handling it over to the applicable take-back scheme for the recycling of electrical and electronic equipment and/or battery. For more information about recycling of this equipment and/or battery, please contact your city office, the shop where you purchased the equipment or your household waste disposal service. The recycling of materials will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and environment.

CE Regulatory Notice

Herewith confirm to comply with the requirements set out in the Council Directives on the Approximation of the Laws of the Member States relating Electromagnetic Compatibility of Radio and Telecom device (1995/5/EC); the Low Voltage Directive (2006/95/EC); the Restriction of The Use of Certain Hazardous Substances in Electrical And Electronic Equipment Directive (2002/95/EC), Turkish EEE Directive.

EU Health Protection: This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This product will meet the Basic Restriction limits of 1999/519/EC.

Battery warning

- Always charge using the provided system. Improper handling of the battery may result in explosion.
- Never dismantle or pierce the battery or allow the battery to short-circuit.
- Keep the battery out of reach of children.
- Batteries may explode if exposed to naked fire. Never dispose of batteries in a fire.
- Disposed of used batteries observing local regulations.
- **Never replace the battery on your own; have the dealer do it for you.**

Notes on Installation

1. This product shall be installed near the rear view-mirror, at the center of windshield, if possible, for optimal viewing.
2. Make sure that the lens is within the wiping range of the windscreen wiper to ensure a clear view even when it rains.
3. Do not touch the lens with your fingers. Finger grease may be left on the lens and will result in unclear videos or snapshots. Clean the lens on a regular basis.
4. Do not install the device on a tinted window. Doing so may damage the tint film.
5. Make sure that the installation position is not hindered by the tinted window.
6. To use the products of the attached power charger only, please do not use other brand power charger, in order to avoid equipment burn or cause the battery explosion.

Caution

- Due to local laws and vehicles safety considerations, do not operate the device while driving.
- Set up time and date accurately before you use this device.
- Please use SuperCar software in condition that Google Map is function normally.
- The firmware function in the device is for reference only, please follow the actual road condition.
- The results of GPS positioning are only for reference, and should not affect the actual driving situation. The system also cannot ensure the positioning accuracy.
- GPS positioning accuracy may differ depending on weather and location such as high buildings, tunnels, undergrounds, or forests.
  GPS satellite signals cannot pass through solid materials (except glass). Tinted window will also affect the performance of the GPS satellite reception.
- GPS reception performance on each device may differ. The system cannot determine the accuracy of the positioning results from different devices.
- The values displayed in this system, such as speed, position, and the distance warning to the speed camera set points, may be inaccurate due to the influence of surrounding environment. They are for your reference only.
- This device requires the installation of the GPS module and vehicle connector in order to use the satellite status, Time Sync., speed-detection photo prompt, user-defined speed detection spot management, user-defined speed limit prompt, lane deviation detection, driver fatigue alert etc.
- The system is used only for non-commercial use, within the maximum limits permitted by applicable law. Our company does not accept any responsibility for any data loss during the operation.
- Wi-Fi Signals are unable to pass through the building. The upper limit of signal transmission is 10m.
- Wi-Fi Operation Channels List: Ch1~Ch11.

- The product employs wireless data communication which may interfere, or be interfered by, a near-by device.
- Never use this device in the vicinity of a microwave oven or at places where there is radio interference.
- Radio wave reception may be worsened in specific environments.
- Please be advised that if another device is also using the same 2.4GHz band as this product, the processing speed of both devices may slow down.
- This product gets warm when in use; this is normal.
- Improper use or operation of the product may result in damage of the product or its accessories and void the warranty.
- The radio frequency (RF) generated by this RF electronic device may cause adverse effects on the operation of other electronic devices and result in malfunctioning. Wireless transmitters and circuitry may also interfere with other electronic devices. Therefore, do observe the following precautions:
  - Aircraft: Never use a radio transmitter when you are in an airplane. Please switch off the Wi-Fi function of the device.
  - Vehicle: The radio frequency transmitted by this device may affect the electronic system in a motorized vehicle. Please consult the manufacturer or dealer of your vehicle on the possible effect.
  - Pacemaker: In order to prevent any potential interference to a pacemaker, anyone who uses a pacemaker should be advised, that, when using this device, a minimum distance of 15cm (6 inch) should be kept between the device and the pacemaker; and never put this device in a chest pocket. In case of any doubt of interference, switch off the device immediately.
  - Medical Device: If you use a personal medical device, consult the device manufacturer or your physician to confirm if your device is sufficiently shielded from the RF transmission of this device.

- Medical Facilities: Hospitals and medical institutes may use facilities that are sensitive to an external RF energy. Observe such instructions when the medical care personnel or any posted sign requests you to switch off any device that may interfere the radio frequency.
- Explosion sites or any location with a posted sign: In order to prevent interfering with an explosion activity, observe all the signage and instructions in the Explosion Area or in a zone with a “Switch Off 2-way Radios” sign by switching off devices that may interfere with the radio frequency.

Before you start using the system, it is assumed that you agree to the above statement.

1 Introduction

Thank you for purchasing this advanced Car Recorder. This device is specifically designed for real time video and audio recording when driving.

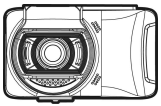
1.1 Features

- Full HD recording videos (1920x1080@30fps or 1280x720@60fps)
- 2.7” LCD color touch screen
- Wide angle lens
- Multifunction traffic safety reminder
- Automatic Emergency recording for collision detection
- Support SDHC Level 6 and above. Support up to 32GB

1.2 Package Contents

The package contains the following items. In case there is any missing or damaged item, contact your dealer immediately.

Car Recorder



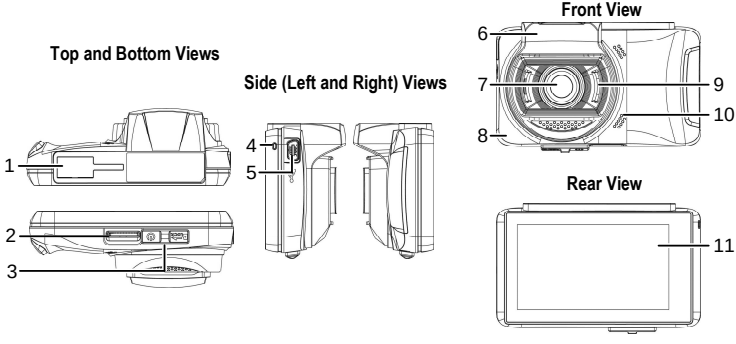
Bracket

CD-ROM

Quick start guide

Car adapter

1.3 Product Overview



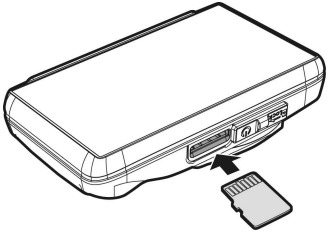
No.	Item
1	Bracket Socket
2	Memory Card Slot
3	Power Switch
4	LED Indicator
5	USB / Power Connector
6	GPS Antenna

No.	Item
7	Wide Angle Lens
8	Wi-Fi Transmission
9	Speaker
10	Microphone
11	LCD Touch Panel

2 Getting Started

2.1 Inserting the Memory Card

Insert memory card with the gold section facing upward and the screen of the device facing upward too, as illustrated. Push the memory card in until a click sound is heard, indicating the card is in position.



To remove the memory card

Push to eject the memory card out of the slot.

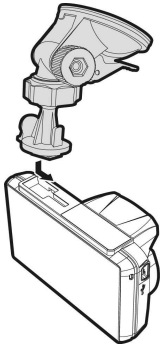
Note:

1. Do not remove or insert the memory card when the device is turned on. This may damage the memory card.
2. Please use a Class 6 or higher rating Micro SD card, max. up to 32GB.
3. Please format the micro SD cards before the initial use.
4. When removing the memory card, be careful that the card may spring out and get lost. The memory slot has this spring-out feature for easy removal of the card.

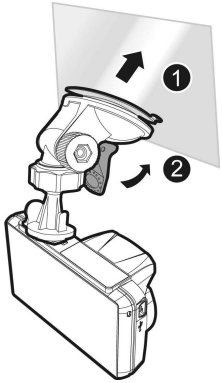
2.2 Installing in Vehicles

2.2.1 Mount to Windshield

1. Push the bracket into bracket slot on top of device, until a click sound is heard.

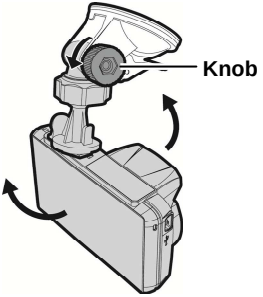


2. With the suction-cup laying flat, position the suction-cup on the windshield.
3. Hold the base firmly on the windshield and press down the clamp to mount the car holder to the windshield. Make sure the base is securely locked in place.

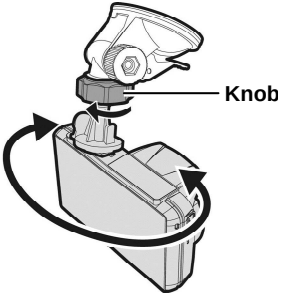


2.2.2 Adjust the device position

1. Loose the knob to swivel the device vertically.



2. Loose the knob to swivel the device horizontally up to 360°.

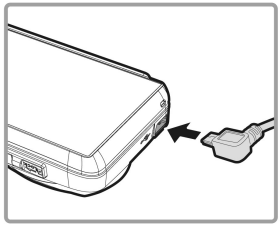


3. Then tighten the knob to make sure the device is securely locked in place.

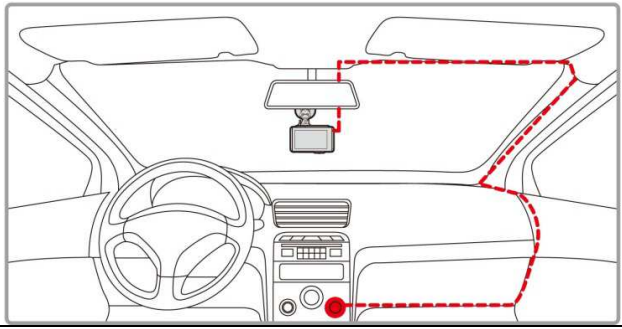
2.3 Connecting to Power

Use only the attached power connector for activating the device and charging the built-in battery.

1. Connect one end of power connector to USB/Power connector port on the device.



2. Plug the other end of the car adapter to the cigarette lighter socket of your vehicle. Once the vehicle engine is started, the device automatically turns on.



Note:
This product shall be installed near the back-mirror, at the center of windshield, if possible, for optimal viewing.

Battery Status Indicator:

Icon	Description
	Full battery power.
	2/3 battery power.
	1/3 battery power.
	Out of battery power.
	Battery is charging.
	Connect the car adapter to charge the battery, battery is full charged.

Note:
Please take note if the environment temperature reaches 45°C or above, the car adapter still can supply power to device, but it will not charge the Lithium-ion battery. This is the characteristic of Lithium-ion and is not a malfunction.

2.4 LED Indicator

Status Explanation	LED Indicator Color
Power off, battery charging	Red
Power off, battery full charged	LED light off.
Power on, battery charging	Red
Power on, battery full charged	Green
Standby / Standby and screen off	Green
Recording/ Recording and screen off	Flash red

2.5 Powering the Device On / Off

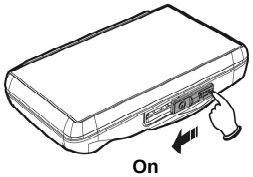
2.5.1 Auto Power On/Off

Once the vehicle engine is started, the device automatically turns on. If the **Automatic Record** function is enabled, the recording will automatically start right after the device turns on.
Please refer to ***Set Automatic Record*** (2.6.1).

2.5.2 Manual Power On/Off and Reset

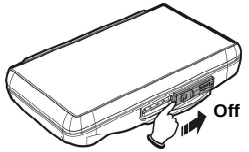
2.5.2.1 Manual Power On

Push the **power switch** and make sure that the power switch locks on the memory card slot.



2.5.2.2 Power Off

Push the **power switch** and make sure that the memory slot is released and the device starts power off sequence. Do not power on the device when it is in the power-off sequence, or the recorded file may become corrupt.



2.5.2.3 Reset the device

In case the device fails to function normally due to unknown causes, push the **power switch** and verify the memory card is in the removable state; wait for 7 seconds and push the power switch again to restart the device.

2.6 Initial Settings

Before using the device, we recommend you to enable the **Automatic Record** function and set up the correct **Date and Time**.

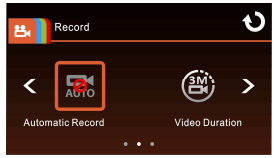
2.6.1 Set Automatic Record

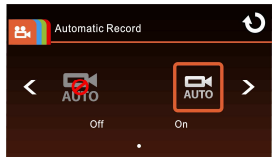
Default setting of Automatic Record is Enabled. The device will automatically start recording when powered on. In case Automatic Record is disabled, enable it by the following steps:

1. Touch to enter Main Menu.

2. Touch to switchover to **Record** Main Menu.

3. Touch to select for entering **Automatic Record** function menu; touch again to select **ON**.



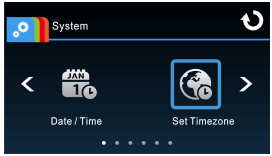


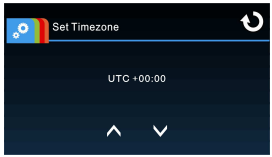
4. Touch to return to Record screen.

2.6.2 Set the Date / Time

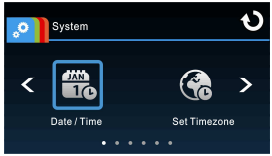
To set the correct date and time, do the following:

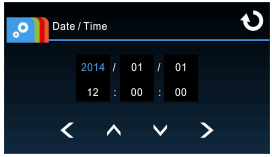
1. Touch to enter Main Menu.
2. In **System** main menu, touch to select for **Set Timezone** menu, touch to set the current time zone; then touch again to complete setting.





3. Select to enter **Date / Time** menu. Touch to select value; touch to select previous or next field; confirm by touching to complete setting.





Note:

1. If ***Time Sync.*** is on, device clock will be calibrated via satellite clock signal based on ***Set Timezone***. Please refer to ***Time Sync.*** (4.2)
2. If satellite positioning is not successful, device clock will run based on user defined time.
3. Please be aware that touching during the recording process will stop the recording process and enter into main menu. Please make sure the recording can be stopped before operating menu selections.

2.7 Application

The camera allows you to connect to the mobile devices via the App. When using for the first time, install the **Life Cam** App for your mobile device.

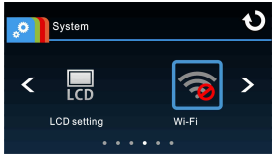
2.7.1 Application installation

1. Search from Google Play or App Store for Life Cam application.
2. Install the App.

APP Layout and Features may be changed subject to different software versions. Please refer to Google Play or APP Store for update.

2.7.2 Wi-Fi connecting

1. Touch to enter Main Menu.
2. Touch to switch over to **System** Main Menu.
3. Touch / to select for entering **Wi-Fi** function menu; wait for screen to display device ID and Wi-Fi password.



Note:

The Wi-Fi content mentioned by the Instruction Manual is the function of S272W, but it is not available for E272S.

Device ID
Wi-Fi password

4. Using Wi-Fi function of a mobile device, search for device ID from the list and select and enter Wi-Fi Password.

   For iOS / Android Users:

   Using the mobile device [Settings] → [Wi-Fi] → [Select device ID no.: S272WXXXXXX] → [Enter the password] → [Connecting]

5. Execute the **Life Cam**

App。

6. To disconnect Wi-Fi link, just exit **Life Cam**

Application.

Note:

1. Make sure the Wi-Fi function of the equipment is activated and the mobile device is receiving Wi-Fi signal before executing the Life Cam App, or the App will be exited.
2. The mobile device shall be within a maximum of a 10m distance from the equipment without any buildings in between.
3. When the Wi-Fi function of the equipment is activated for 3 minutes without connecting with your mobile device, or the connection is disconnected, the equipment will automatically stop the Wi-Fi function and you will need to re-activate the Wi-Fi function.
4. We suggest that you should set the correct date and time for your mobile device before using the equipment, so that the recorded video will be consistent with the date and time settings of the mobile device.
5. When linking up with a mobile device, touch-control of device screen is no longer effective. Perform operations via the Life Cam Application. For operating the device again, you need to exit the Life Cam Application first. To operate the device, please quit the Life Cam program, and restart.
6. The language of the Life Cam App will be consistent with that of your mobile device, it shall be the default language if it is not the built-in one.

3 Using the Car Recorder

3.1 Recording Videos

3.1.1 Record videos while driving

When the vehicle engine starts up and the **Automatic Record** function is enabled, the device automatically turns on and starts recording.

The touch panel function is not ready yet within 2 seconds upon the **Auto Recording** start.

Recording will automatically stop when the engine is switched off, or touch to stop recording manually.

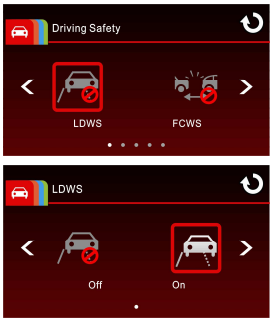
Note:
On some cars, the recording will continue when the engine is switched off. If this happens, please manually turn off the cigarette lighter or remove the car adapter from the cigarette lighter.

3.1.2 LDWS (Lane Departure Warning Systems)

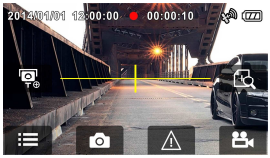
When **LDWS** is enabled after satellite positioning, device will give a voice alert and display an alarm screen if vehicle speed reaches or exceeds 50 km/h (31 mile/h) and the vehicle deviates from the original lane.

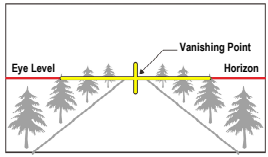
To set the LDWS (Lane Departure Warning Systems), do the following:

1. Touch to enter Main Menu.
2. Touch to switchover to **Driving Safety** Main Menu.
3. Touch to select for entering **LDWS** function menu, then touch again to enable the function (**on**).



4. Touch to return to record screen.
5. After enabling LDWS, screen displays LDWS cross line , please adjust the equipment to align the skyline with the horizontal line, and make sure the vertical line in the middle of road.





6. when satellite positioning is in ready state, device will give a voice alert and an alarm screen if vehicle speed reaches or exceeds 50 km/h (31 mile/h) and the vehicle deviates from the original lane.

Note:

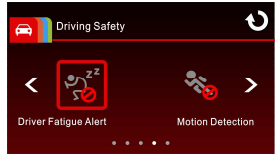
1. **LDWS** is only applicable when satellite positioning is in ready state. Make sure satellite positioning of your device is ready if you want to activate this function. Satellite positioning function is dependent on the model purchased.
2. When enable the LDWS, FWDS and Front Vehicle Go, please follow this self-aligned approach in order to increase the accuracy.
3. The all ***Driving Safety*** functions such as LDWS, FCWS, Front Vehicle Go, Headlight warning, Speed Cam Alert, Speed Limit Alert, Driver Fatigue Alert, Collision Detection and ACC/DEC Alert will be disabled, if the product doesn't connect with the external power supply.

3.1.3 Driver Fatigue Alert

When **Driver Fatigue Alert** is enabled, a voice alert and a warning screen will be activated 1 hour after the device is powered on, with a repetition at every subsequent 30 minutes.

To set the driver fatigue alert, do the following:

1. Touch to enter main menu.
2. Touch to switch over to **Driving Safety** Main Menu.
3. Touch to select for entering **Driver Fatigue Alert** menu, touch again to activate (**on**).



4. Touch to return to record screen.

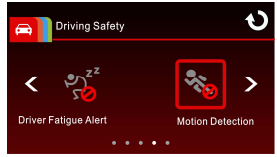
Note:
The all ***Driving Safety*** functions such as LDWS, FCWS, Front Vehicle Go, Headlight warning, Speed Cam Alert, Speed Limit Alert, Driver Fatigue Alert, Collision Detection and ACC/DEC Alert will be disabled, if the product doesn't connect with the external power supply.

3.1.4 Motion Detection

If **Motion Detection** is activated, turned off the car adapter when the device is powered on, the system alert message "***Wait for 10 seconds to enter Motion Detection or touch the screen to power off***" will be displayed on the screen. This means the system will enter Motion Detection automatically in 10 seconds; when the device detects any motion in front of lens, Video Record will be activated for a duration the same as the length setting.

To set the motion detection, do the following:

1. Touch to enter main menu.
2. Touch to switch over to **Driving Safety** Main Menu.
3. Touch to select for entering **Motion Detection** menu, touch again to activate (**on**).



4. Touch to return to record screen.

Note:

1. When the battery is fully charged and is in good condition, Motion Detection can record continuously for about 30 minutes.
2. As the device is used, the battery storage capacity will decrease gradually. This is a normal phenomenon for the battery.

3.1.5 Record all other types of videos

1. Touch to start recording.
2. Touch again, to halt the recording.

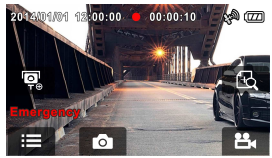
Note:

1. It can be configured to save a video file for every 3 or 5 minutes of recording. Please refer to ***Video Duration*** (4.2).
2. The device saves the recording in the memory card. If the memory card capacity is full, the oldest file in the memory card is overwritten.

3.1.6 Emergency Recording

Start the Emergency Recording, do the following:

1. During video recording, touch to enter emergency recording mode, the "Emergency" message will be shown immediately on the lower left corner of the screen, and the recorded file will be protected.

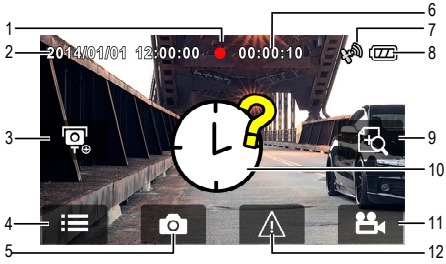


2. Touch again, to halt the recording.

Note:

1. If the ***Collision Detection*** function is enabled and a collision is detected, the device will automatically trigger the emergency recording. Please refer to ***Collision Detection*** (4.2).
2. The emergency recording file is created as a new file, which will be protected to avoid being overwritten by normal cycling recording. 8G (or above) memory card can save up to 8 emergency video files. The alert message of "***Emergency files are full***" will pop up on the screen when the emergency recording files are full, and the oldest emergency file will be automatically deleted when a new emergency recording file is created.

3.1.7 The Recording Screen



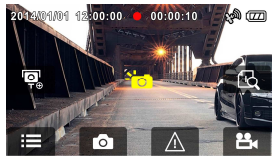
No.	Icon	Item	Description
1		Recording Icon	Indicates the recording status.
2	2014/01/01 12:00:00	Date / Time	Indicates the current recording date and time.
3		Add speed point	Touch to add a speed cam point.
4		Menu	Touch to enter the main menu.
5		Taking Snapshot	While recording, touch to take a photo.
6	00:00:10	Recording Duration	Indicates the video current duration.
7		Satellite positioning icon	The icon appears on the screen when satellite positioning of the device is ready.
8		Battery	Indicates the remaining battery power.

9		4 GRID FUNCTION CHART in the LCD screen	Touch to enter the 4 GRID FUNCTION CHART in the LCD screen. Please refer to ***4 GRID FUNCTION CHART in the LCD screen*** (3.1.9).
10		Reset of date / time Prompt	Remind the user to reset the Date / Time before start to use the device. Please refer to ***Set the Date / Time*** (2.6.2)
11		Recording	Touch to start recording, touch again to halt the recording.
12		Emergency Recording	During video recording, touch to enter emergency recording mode. Please refer to ***Emergency Recording*** (3.1.6).

3.1.8 Taking Snapshot

You can also use this device to take snapshots of the current scene.

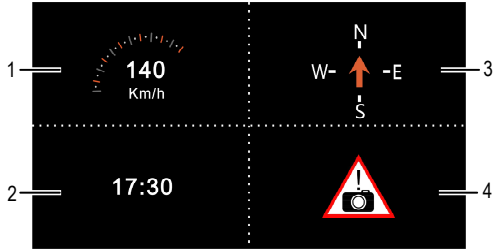
1. Press in recording mode to take a snapshot.
2. A snapshot is taken when this icon appears at center of screen.



3.1.9 4 GRID FUNCTION CHART in the LCD screen

Please touch when you are recording, then you can see the 4 GRID FUNCTION CHART in the LCD screen.

Touch any point of the screen to return to Record Screen.



No.	Item
1	Driving Speed
2	Time

No.	Item
3	Driving direction
4	Speed Cam Alert

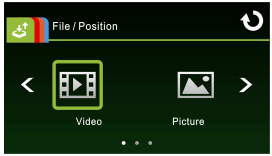
Note:
Driving Speed, Driving Direction and Speed Cam Alert are only applicable when satellite positioning of the device is ready; otherwise, they will be displayed in gray scale only. Satellite positioning function is dependent on the model purchased.

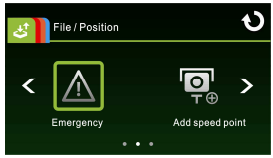
3.2 Playing Videos and Viewing Pictures

3.2.1 Playing Videos and Emergency Recording

Playback video record files as follows:

1. Touch to enter main menu.
2. Touch to switch over to **File / Position** menu.
3. Touch to enter **Video/ Emergency** function menu.





4. Touch to browse for required video file, touch selected preview of video to enter Playback Mode

5. Touch repetitively to return to Record Screen.

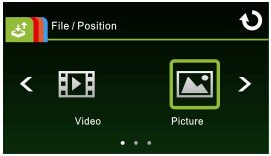
3.2.2 Viewing Pictures

View pictures as follows:

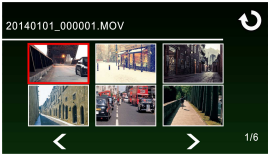
1. Touch to enter Main Menu.

2. Touch to switch over to **File / Position** main menu.

3. Touch to enter **Picture** function menu.



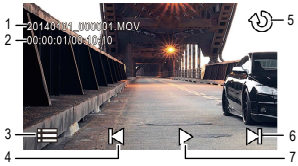
4. Touch to browse for required picture files, touch selected preview of picture to enter Picture Playback Mode.



5. Touch repetitively to return Record Screen.

3.2.3 The Playback Screen

Video Playback Screen



Picture Playback Screen

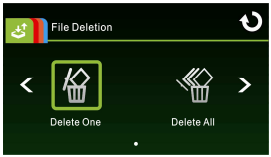
No.	Icon	Item	Description
1	20140101_00001.MOV	File Name	Indicates name of current video or picture file.
2	00:00:01/ 00:00:10	Current Duration / Video Duration	Indicates time code and duration of current video file.
3		Menu	Touch to enter **File Deletion** menu.
4		Fast Rewind / Previous File	• Touch when video or picture is not in playback will switch over to the previous file. • Touch in video playback mode will reverse the playback.
5		Return	Touch to return to preview screen of video or picture. Touch repetitively to return to record screen.

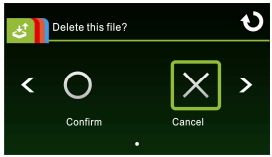
No.	Icon	Item	Description
6		Fast forward / Next File	• Touch when video or picture is not in playback will switch over to the next file. • Touch in video playback mode will enable fast forward playing of video.
7		Playback/ Pause	Touch to play or pause the video.

3.2.4 Deleting Files

To delete file(s), do the following:

1. Touch to enter Main Menu.
2. Touch to switch over to **File / Position** main menu.
3. Touch to enter **Video/Picture/Emergency** menu.
4. Touch to browse for required video or picture file; touch selected preview image to enter **Video/Picture Playback Mode.**
5. Touch to enter **File Deletion** menu, select to delete one file or all files; touch to confirm or cancel the selection.





Item	Description
Delete One	Delete the current file.
Delete All	Delete all files.

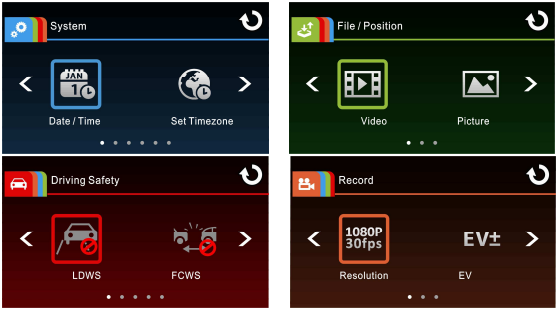
6. Touch repetitively to return to Record Screen.

Note:
Deleted files cannot be recovered. Ensure the files have backup before deletion.

4 Adjusting the Settings

4.1 Using the Menu

You can customize the general settings via the on-screen display (OSD) menus.



1. Touch in the record mode will stop the record and enter into Main Menu.
2. Touch to switch over main menus.
3. Touch to browse for function items in the respective main menu; touch a function icon to enter setting screen.
4. On completion of setting a required function item, device will return automatically to the main menu of the selected function.
5. Touch to return to Record Screen.

4.2 Menu Items

Refer to the below table for details of main menu and function list.

Main Menu	Function List	Description	Available Option
System	Date / Time	Set the date and time.	
	Set Timezone	Set the time zone you are in.	UTC -12:00 ~ UTC +12:00
	Time Sync.	When enabled, device clock will be calibrated automatically based on satellite clock of the set time zone on completion of satellite positioning.	On / Off
	Beep	Enable/Disable the beep.	Off / Low / Medium / High
	Language settings	Set the on-screen display menu language.	English / 繁體中文 / 简体中文 / Русский / Español / Deutsch / Français / Português / Italiano / Japanese / Arabic
	Distance Unit	Select the unit for distance display.	KM / MILE
	LCD setting	Set LCD off time. Device screen will be off after a set time if no operation is detected during the standby or record mode. Touch any point of the touch screen will switch it on. (Recording is not affected when screen is off).	On / Off After 30 sec. / Off After 3 min.
	Wi-Fi	Set Wi-Fi linkage of a mobile device.	

Main Menu	Function List	Description	Available Option
	Satellite System	Select satellite system of the locality.	GPS / GLONASS
	Recorder Format	Format the memory card inserted in the equipment. All the files in the card will be erased.	Yes / No
	Default Setting	Resume the equipment to its default setting.	Yes / No
	Firmware Version	Indicates the current Firmware.	
File / Position	Video	Play / Delete a video file.	
	Picture	Play / delete a picture file.	
	Emergency	Play / delete an emergency record file.	
	Add speed point	Manually add speed points after satellite positioning, up to 200 user defined speed points can be added.	
	Delete speed point	Delete all the user defined speed points from system.	
Driving Safety	LDWS	When LDWS is enabled after satellite positioning, device will give a voice alert and an alarm screen if vehicle speed reaches or exceeds 50 km/h (31 mile/h) and the vehicle deviates from the original lane.	On / Off
	FCWS	When FCWS is activated after satellite	On / Off

Main Menu	Function List	Description	Available Option
		positioning, device will issue a voice alert and an alarm image when vehicle speed is above 50 km/h (31 mile/h) and the distance with the front vehicle is less than 20m.	
	Front Vehicle Go	When Front Vehicle Go is activated after satellite positioning, device will issue a voice alert and an alarm image when vehicle speed is below 50 km/h (12.4 mile/h) and the distance with the front vehicle is more than 20m.	On / Off
	Headlight Warning	When Headlight is activated, device will issue a voice alert and an alarm screen reminding that insufficient brightness is sensed on the recording face.	On / Off
	Speed Cam Alert	When a vehicle approaches a speed detection camera, the device will issue a voice alert and an alarm screen for reminding.	On / Off
	Speed Limit Alert	User defined speed limit. Device will issue an alert sound when vehicle speed exceeds the setting value.	Off / 50 km/h ~ 200 km/h

Main Menu	Function List	Description	Available Option
	Driver Fatigue Alert	When Driver Fatigue Alert is enabled, a voice alert and a warning screen will be activated 1 hour after the device is powered on, with a repetition every subsequent 30 minutes.	On / Off
	Motion Detection	If Motion Detection is activated, the device will automatically trigger recording when the device detects any motion in front. When the battery is fully charged and is in good condition, Motion Detection can record continuously for about 30 minutes.	On / Off
	Collision Detection	The Device will automatically trigger emergency recording when tremor of a collision is detected.	High Sensitivity / Normal Sensitivity / Low Sensitivity / Off
	ACC/DEC Alert	If Speed Accelerate/ Decelerate Alert is activated after satellite positioning, device will issue a voice alert and display an alarm screen when vehicle speeds up above 70 km/h (43.5 mile/h) and accelerates 30 km/h (18.6 mile/h) in 5 seconds, or speeds up above 50 km/h (31 mile/h) and decelerates 20 km/h (12.4 mile/h) in 5 seconds.	On / Off

Main Menu	Function List	Description	Available Option
Record	Resolution	Setting of video resolution.	FHD (1080P/30fps) / HD30 (720P/30fps) / HD60 (720P/60fps)
	EV	Set the exposure compensation.	+2.0 ~ -2.0
	Automatic Record	Setting for enabling Automatic Record after device power on.	On / Off
	Video Duration	Save respective video files in a length of the selected duration.	3 min. / 5 min.
	Voice Record	Setting for activating audio in the video.	On / Off
	Time Stamp	Setting for the indication of date and time stamp on the picture or video recorded.	On / Off

Note:
The all ***Driving Safety*** functions such as LDWS, FCWS, Front Vehicle Go, Headlight warning, Speed Cam Alert, Speed Limit Alert, Driver Fatigue Alert, Collision Detection and ACC/DEC Alert will be disabled, if the product doesn't connect with the external power supply.

5 Installing the Software

1. Place the attached CD ROM into the CD player.
2. If the CD does not execute automatically, please use Windows File Manager to execute the **Install_CD.exe** file in the CD.

   The following screen will be shown up.

3. Press the [Menu] item to start the installation process according to the instructions on-screen.

6 SuperCar

No.	Item
1	Video Player
2	Play / Pause
3	Previous
4	Next
5	Stop
6	Google Map
7	Compass
8	Speed Meter

No.	Item
9	File Path
10	Browser File
11	File List
12	File Name
13	Volume
14	Current Duration / Total Duration
15	Signal Noise Ratio (SNR)
16	G-Sensor

Note:
1. To display the route on Google Maps, please make sure the internet is connected before starting the video playback.
2. Video files (MOV / TS) and GPS/G-Sensor files (NMEA) must be stored in the same folder before starting the playback.
3. The SuperCar software is only applicable to a Windows operating system.

7 Specifications

Item	Description
Image sensor	1/2.7" CMOS sensor
Effective pixels	1920 (H) x 1080 (V)
Storage media	Support Micro SDHC Class 6, max. up to 32GB
LCD display	2.7" LCD color TFT touch screen
Lens	Wide Angle Fixed Focus lens F2.0, f=3.4mm
Focus range	1.5m~Infinity
Satellite System	GPS / GLONASS (Satellite Positioning feature varies depending on the model)
Wi-Fi	802.11 b/g/n (The wireless network feature varies depending on the model)
Movie Clip	Resolution: FHD (1080P/30fps); HD30 (720P/30fps); HD60 (720P/60fps)
	Format: MOV
Still image (Snapshot)	Resolution: 2M (1920 x 1080)
	Format: JPEG
Shutter	Electronic shutter Auto:1/2 ~1/2000 sec.
G-Sensor	3-Axis G-Force sensor
ISO	Auto
White Balance	Auto
Microphone	Yes

Item	Description
Speaker	Yes
Interface	Mini USB
Battery	Built-in 470mAh Li-polymer rechargeable
Operating Temperature	0° ~ 50° C
Operating Humidity	20 ~ 70% RH
Storage Temperature	-20° ~ 80° C
Dimensions	80 x 30.3 x 51.2 mm
Weight	Approx. 82g (without memory card)

Built-in IEEE 802.11n Wi-Fi module: WN7911B-WM

Frequency range	2412~2462MHz
Channel List	Ch1~Ch11

Contains FCC ID: 2ACFIWM7911B

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Polaroid

Questions?
Need some help?
This manual will help you enjoy your new product

If you still have questions, call our help line:
400-8401-030

or visit us at:
www.polaroidcarcam.com